



Requisition Letter

From
Dr. K.P.Kaliyamurthie,
Professor & Head,
Department of CSE,
Bharath Institute of Higher Education and Research,
Chennai

Date: 21.03.2019

To
The Dean Engineering,
Bharath Institute of Higher Education and Research,
Chennai

Respected sir

Subject: Request of Permission to conduct a value added course on **“Practical Machine Learning with Tensorflow”** -Reg

With reference to above subject, I would like to bring to your kind notice that, our department is ~~anxious~~ to organize value added course on **“Practical Machine Learning with Tensorflow”** in our campus premises on 28/03/2019.

30 students would be participating in this course. We request you kindly to give permission to organize this event.

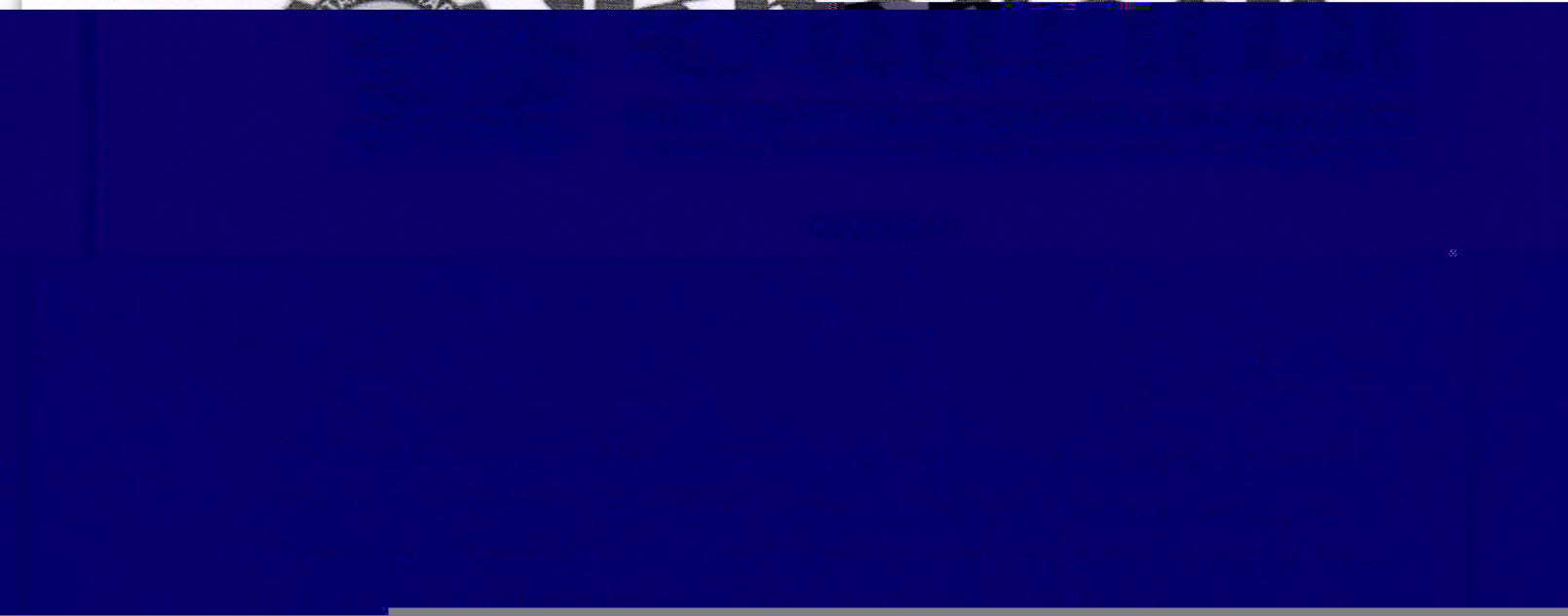
Venue: CSE Smart Room

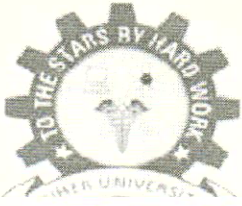
Timing : 9 am to 4.30 pm

Submitted to Principal for approval to _____



Q1 2016





Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH...

(Overseas) as Approved to the University under Section 3 of UGC Act 1956

CERTIFICATE COURSE ON PRACTICAL MACHINE LEARNING WITH TENSORFLOW

Date of Introduction of the Course: 28.3.2019

COURSE SYLLABUS

1. Getting started with TensorFlow	2. Getting started with TensorFlow
Loss functions in machine learning process- loss	Overview of tensor flow – machine learning refresher- step function in machine learning – gradient decent
Supervised and Reinforcement Learning and evaluation – machine learning	2. Overview of Machine Learning Explore Machine Learning intuition - Supervised, Unsupervised intuition - Gradient decent variations – model selection and visualization – deep learning refresher- introduction to tensorflow
Building a pipeline for tensor flow – text	3. Statistic for Machine learning Mathematical foundations of deep learning – building data processing with tensorflow
Text classification- underfitting and	4. Machine Learning Model Building Classify images – regression – classify structured data – text overfitting – save and restore models
Image hub – Image	5. Deep Neural Network CNN – transfer learning with pretrained CNN – transfer learning with TF classification and visualization
Working with RNN	6. Deep Neural models Introduction to word embeddings – Recurrent neural network – time series forecasting – text generation with RNN - Estimator API – Logistic Regression – Boosted Trees
Write “Hello World” program in TensorFlow constant and play with it -	7. Installing TensorFlow Environment Install Anaconda Distribution - Restore the environment file Jupyter Notebook - TensorFlow Basic Syntax - Create TensorFlow Create Interactive Session - Matrix Multiplication
	8. TensorFlow Essentials